U.S. Patent Application No. 10/517,073 Reply to Office Action dated December 10, 2008 PATENT 450100-04618

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the

application. An identifier indicating the status of each claim is provided.

Listing of Claims

1. (Canceled)

2. (Previously Presented) A video tape recorder that sequentially

forms recording tracks aslant on a magnetic tape and records video data, audio data, and

auxiliary data related to the video data and the audio data onto the magnetic tape, comprising:

data compressing means for compressing the video data and the audio data to

generate compressed video data and compressed audio data;

pack unit generating means for generating a pack unit by forming compressed

video data into a block for each predetermined number of pictures and combining the

compressed video data of the block, the compressed audio data corresponding thereto, and the

auxiliary data corresponding thereto; and

a recording system that allocates data of the pack unit to a main sector and

allocates the auxiliary data of the pack unit to a subcode sector to sequentially form recording

tracks based on the main sector and the subcode sector,

wherein the auxiliary data of the main sector includes at least reproduction

standard management information, which corresponds to time management information of the

video data in a decoding mode and which is disposed in the order of pictures of the video data,

and the auxiliary data of the subcode sector includes at least the reproduction standard

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management information and picture type information that are disposed in the order of pictures

of the compressed video data, and

wherein the auxiliary data of the main sector includes, in addition to the

reproduction standard management information, time information of the video data and/or the

audio data, which is disposed in the order of pictures of the video data, and the auxiliary data of

the subcode sector includes time information of the video data and/or the audio data, which is

disposed in the order corresponding to the auxiliary data of the main sector.

3. (Currently Amended) The video tape recorder according to claim 1 claim

2, comprising:

search data generating means for generating search data from picture data by

encoding within a frame in the video data; and

auxiliary data generating means for generating auxiliary data for search related to

the search data,

wherein the pack unit generating means further combines the search data and the

auxiliary data to generate the pack unit, of the auxiliary data of the search data, search data of the

video data recorded on the magnetic tape is recorded on the basis of the time management

information of the video data in the decoding mode, and display data to be displayed with an

image based on the search data is recorded on the basis of the time management information on

reproduction and output of the video data.

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 (Original) The video tape recorder according to claim 3, wherein the search data is tape position information indicating a position where the corresponding video data has been recorded.

 (Original) The video tape recorder according to claim 3, wherein the search data is management information on a reproduction standard of the corresponding video data.

(Original) The video tape recorder according to claim 3,
wherein the display data is time information of the corresponding video data.

(Canceled)

8. (Previously Presented) A recording method for sequentially forming recording tracks aslant on a magnetic tape and recording video data, audio data, and auxiliary data related to the video data and the audio data onto the magnetic tape, comprising:

a data compressing step for compressing the video data and the audio data to generate compressed video data and compressed audio data;

a pack unit generating step for generating a pack unit by forming compressed video data into a block for each predetermined number of pictures and combining the compressed video data of the block, the compressed audio data corresponding thereto, and the auxiliary data corresponding thereto: and

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a recording step for allocating data of the pack unit to a main sector and allocating

the auxiliary data of the pack unit to a subcode sector to sequentially form recording tracks based

on the main sector and the subcode sector,

wherein the auxiliary data of the main sector includes at least reproduction

standard management information, which corresponds to time management information of the

video data in a decoding mode and which is disposed in the order of pictures of the video data,

and the auxiliary data of the subcode sector includes at least the reproduction standard

management information and picture type information that are disposed in the order of pictures

of the compressed video data, and

wherein the auxiliary data of the main sector includes, in addition to the

reproduction standard management information, time information of the video data and/or the

audio data, which is disposed in the order of pictures of the video data, and the auxiliary data of

the subcode sector includes time information of the video data and/or the audio data, which is

disposed in the order corresponding to the auxiliary data of the main sector.

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